AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 1, line 18, as follows:

The exemplary embodiment of the present invention seeks to provide a Wireless Local Loop (WLL) system and Quality of Service to an information transaction between two peers within a Wireless IP Local Loop (WipLL) system, whose scheme of operation comprises an Internet protocol (IP) packet switching scheme rather than a circuit switching scheme. This Wireless (Internet Protocol) Local Loop (WipLL) system seeks to provide an "all-in-one" broadband access solution for the operator, supporting a variety of data and voice applications on a single integrated platform.

Please amend the paragraph beginning at page 1, line 25, as follows:

The exemplary embodiment of the present invention provides a shared media that is used by all customers in the most optimal way due to its packetized air protocol. This technology enables one of the system's unique features: The ability to recognize the content of a transmission - e.g. its application - and assign Bandwidth (BW) and Quality-of-Service (QoS) accordingly.

Please amend the paragraph beginning at page 2, line 6, as follows:

The <u>exemplary embodiment of the present invention</u>, operative as an integrated broadband terrestrial wireless system, is a complete system solution for carriers or providers of multiple fixed access services to the SME (small to medium enterprises), SOHO (small office home office) and residential marketplace including Voice, Data and Video.

Please amend the paragraph beginning at page 2, line 10, as follows:

The exemplary embodiment of the present invention has significant cost and service advantages over existing wired solutions (HFC, ADSL, FTTC) due primarily to the economic

advantage of wireless deployment where customer penetration rates are not optimal and cannot be fully anticipated. The system allows new carriers, as well as incumbents, to deploy, quickly and relatively inexpensively, a full service broadband access network.

Please amend the paragraph beginning at page 2, line 18, as follows:

The unique features of the exemplary embodiment of the present invention include the integration of multiple services, including data voice and video, on a single platform, QoS supported by advanced air protocol, bandwidth assignment according to true data throughput, wireless access with efficient spectrum use, toll quality telephony and voice band data, large coverage area - up to 25 km radius, high Base Station capacity due to capability for co-located multiple radio units, comprehensive and user-friendly Network Management System and scalability.

Please amend the paragraph beginning at page 3, line 19, as follows:

The <u>exemplary embodiment of the present invention preferably utilizes three</u> simultaneous approaches to provide Quality of Service to an information transaction between two peers within a WipLL system: Weighted Fair Queuing (WFQ, based on the time-to-live of the different packets in the transmission queue of a node); rate-control; and QoS-scheduling. The present invention particularly utilizes WFQ and QoS-scheduling and the adaptive combination between them.

Please amend the paragraph beginning at page 11, line 8, as follows:

Each AIU radio unit in the <u>BSyUBSU</u> can maintain a 4 Mbps link with the subscribers in its sector. In this link the radio can maintain, for example, 50 simultaneous (64 kbps) voice links. Table 1 shows the number of simultaneous users connected to one BSU in a typical 6-sector cell with one AIU (radio) per sector, assuming 100 mE/subscriber and 1% GOS.